Final PUBLIC MEETING

FOR THE

Phased Powell River, North Fork Powell River, South Fork Powell River, Butcher Fork, Wallen Creek TMDL Development

Shelley D. Williams DEQ- Southwest Regional Office



<u>Overview</u>

- Department of Environmental Quality
 - 1. Conducts Water Sampling
 - 2. Assess the data by comparing it to standards
 - 3. Problem (Impaired) waters are listed In an EPA report called the 303(d) Total Maximum Daily Load (TMDL) List

TMDL required by State and Federal Law

Total Maximum Daily Loads are Mandated by Law

- Federal 1972 Clean Water Act requires
 - Water Quality Monitoring
 - Periodic Assessment and Impaired Waters Listing
 - Develop TMDLs for Impaired Waters
- Virginia's 1997 Water Quality Monitoring Information and Restoration Act (WQMIRA) requires
 - **TMDLs for Impaired Waters**
 - An Implementation Plan
- 1999 Consent Decree with EPA to develop TMDL Reports for all 1998 listed streams by 2010

Designated Uses

Recreation (swimming and boating)

Aquatic Life

balanced, indigenous including game fish



Trout Waters



Edible natural resources

Fish
Shellfish (on the coast)

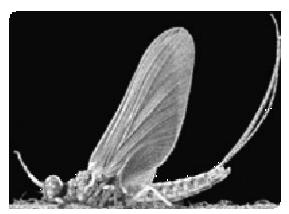


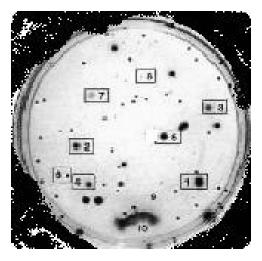




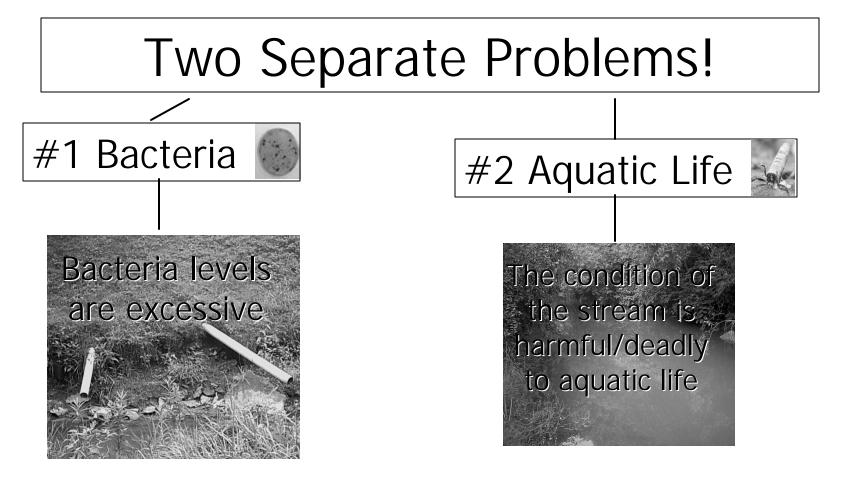
What are Water Quality Standards?

- Numeric or Narrative Limits designed to protect designated uses
 - Recreational use: measured by the number of colony forming units of F.coli in the water
 - Aquatic life use: measured by the numbers and varieties of aquatic organisms that live in our streams

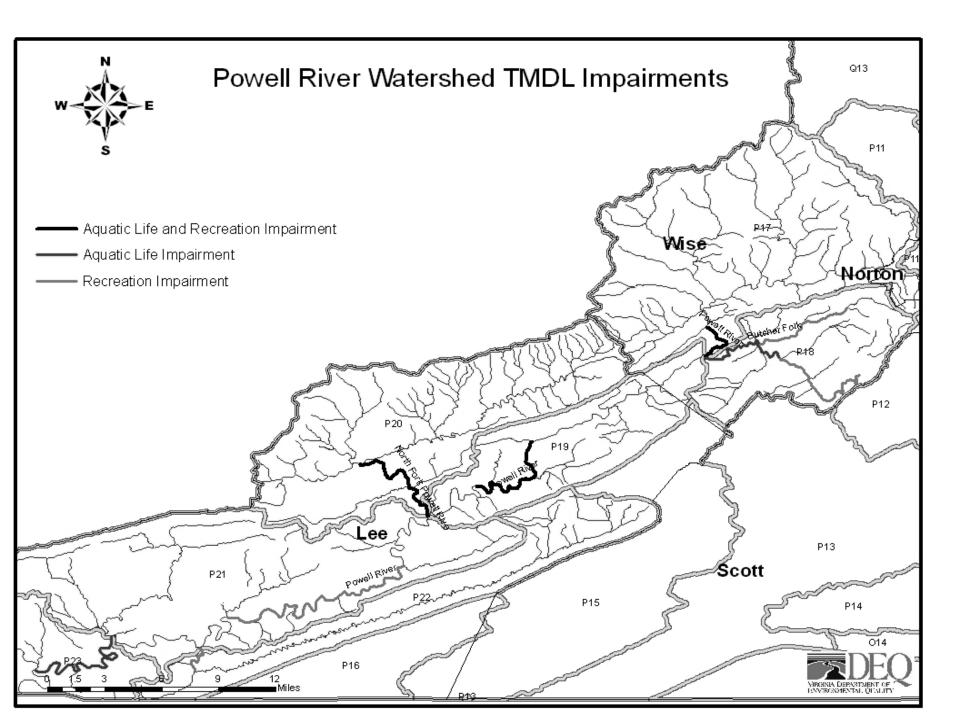




Powell River Why Are We Here?



Approximately 82 impaired stream miles.



What is a **TMDL** or **Total Maximum Daily Load?**

- Amount of a pollutant that a waterbody can receive and still meet water quality standards
- It is pollutant specific
 - Aquatic Life Stressors
 - Bacteria
- It is a process to restore impaired waters
- A special study that:
 - Identifies all significant pollution sources,
 - Calculates amount of pollution from each source, and
 - Calculates pollution reductions, by source, needed to attain water quality standards.

What Next?

We Are Here
Phased TMDL

Implementation Plan



• Identifies permit controls, best management practices, or remediation options needed to make necessary pollutant reductions Total
Maximum
Daily
Load





- Calculates amounts from each source
- Tracks pollutants in the system
- Sets maximum pollutant load
- Estimates necessary pollutant reductions





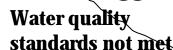




Clean

Water quality standards met





Nested TMDLs

 Bailey's Trace, Ely Creek, Gin Creek, Lick Branch, Puckett Creek and Stone Creek

Nested within the Straight Creek TMDL

Information

- TMDL
 - Virginia
 - DEQ homepage http://www.deq.virginia.gov/tmdl
 - **Federal**
 - **EPA homepage** http://www.epa.gov/owow/tmdl/



Thank You!



Shelley D. Williams

(276) 676-4845

sdwilliams@deq.virginia.gov www.deq.virginia.gov





